

SEQUENCE PROTOCOL

<110> Rhein Biotech Gesellschaft für neue biotechnologische Prozesse
und Produkte mbH

<120> Nucleic acid molecule, comprising a nucleic acid coding for a
polypeptide with chorismate mutase activity

<130> P30558-01996

<140>

<141>

<160> 3

<170> PatentIn Ver. 2.1

<210> 1

<211> 843

<212> DNA

<213> Hansenula polymorpha

<400> 1
atggacttta tgaagccaga aacagtgtgtg gaccttgcca acattagaga tgccttggtc 60
cggatggagg atacgatcat cttcaacttt atcgagcggg cgcagttcta tgcgtcgccc 120
tcggtatata aagtcaccca gttccctatt cccaacttgg acggtcgtt cttggactgg 180
ctgtgttcgc agcagcagcg aatccattcg caggtgagga gatacgcgcg gccagacgag 240
gtgccttttt tccccaacgt gctggaaaaa acgtttctgc ccaagatcaa gatctacacg 300
gtgctagcct cctacgcgga tgaatcaac gtcaacaaag agatactcaa ccttggcctg 360
tcagagatag taccaggaat agctgcaggc agcggagagc aggaggacaa ccttggcctg 420
tgcgcaatgg ccgacatcga gtgcctgcag tcgctatcca gaagaatcca ttttggccgt 480
tttgtcgagc aggtctaaatt tatcagttag ggggacaaga ttgtggatct gatcaaaaag 540
agagatgtgg aaggcattga ggcgtctatc acaaacgcgg aggtcgaaaa acggatcttg 600
gacagacttc tggagaaggg aagggcgtat ggaacagacc cgcactaaaa gtccacgcag 660
cacattcaga gcaaggtgaa gcccgaggtg attgtgaaaa tctacaagga tttcgtgatt 720
ccgctcacga agaaggtcga agtcgactac ttgctgagac ggctggagga cgaggaggac 780
gatgatcgca cgcagaaaag cggcggctac gttgaccggt ttctctcctc tggcttgta 840
tag

<210> 2

<211> 280

<212> PRT

<213> Hansenula polymorpha

<400> 2
Met Asp Phe Met Lys Pro Glu Thr Val Leu Asp Leu Gly Asn Ile Arg
1 5 10 15
Asp Ala Leu Val Arg Met Glu Asp Thr Ile Ile Phe Asn Phe Ile Glu
20 25 30
Arg Ser Gln Phe Tyr Ala Ser Pro Ser Val Tyr Lys Val Asn Gln Phe
35 40 45
Pro Ile Pro Asn Phe Asp Gly Ser Phe Leu Asp Trp Leu Leu Ser Gln
50 55 60
His Glu Arg Ile His Ser Gln Val Arg Arg Tyr Asp Ala Pro Asp Glu

<210> 3
<211> 1655
<212> DNA
<213> Hansenula polymorpha

[illegible]

agcgaatcca	gcggtttttg	tggttcagac	atctttcgtg	gcttttaggc	gaggataagc	300
gaacttgagg	agcgtttttt	ttttcctggt	tagtttttgt	aggatggac	tttatgaagc	360
cagaaacagt	gctggacctt	ggcaacatta	gagatgcctt	ggtccggatg	gaggatacga	420
tcatcttcaa	ctttatcgag	cggtcgcagt	tctatgcgtc	gccctcggta	tacaaagtca	480
accagttccc	tattcccaac	ttcgacggct	cggttttggg	ctggctgttg	tcgcagcacg	540
agcgaatcca	ttcgacgggt	aggagatacg	acgcgccaga	cgaggtgcct	tttttcccca	600
acgtgctgga	aaaaacgttt	ctgcccaaga	tcaactacc	atcggtgcta	gcctcctacg	660
cggatgaaat	caacgtcaac	aaagagatac	tcaagatcta	caogtcagag	atagtaccag	720
gaatagctgc	aggcagcggg	gagcaggagg	acaaccttgg	ctcgtgcgca	atggccgaca	780
tcgagtgctc	gcagtcgcta	tccagaagaa	tccattttgg	ccgttttgtc	gcagaggcta	840
aatttatcag	tgagggggac	aagattgtgg	atctgatcaa	aaagagagat	gtggaaggca	900
ttgagcgctc	catcacaaac	gccgaggtcg	aaaaacggat	cttgagacaga	cttctggaga	960
aggggaaggc	gtatggaaca	gacccgacac	taaaagttcac	gcagcacatt	cagagcaagg	1020
tgaagcccca	ggtgattgtg	aaaatctaca	aggatttcgt	gattcgcgtc	acgaagaagg	1080
tcgaagtcga	ctacttgctg	agacggctgg	aggacgagga	ggacgatgat	gcgacgcaga	1140
aaagcggcgg	ctacgttgac	cggtttctct	cctctggcct	gtactagaaa	ttaaattttt	1200
cagtaacttta	attattctcg	aattctagtt	cagataccgc	atggtaattt	caaaggccag	1260
aaaagttggc	gcgttggctg	gggcagctct	cagaatagtc	ggcgagaatc	ctttgactag	1320
cccccaggca	ccgctctgtc	tccaaatacc	cctaatagtc	tcaacagcat	ttctataaac	1380
cagcttcttg	tagttgtccg	tctgcatggt	ggacttgatc	acatcgatcg	gataaaatct	1440
gaaccacata	ccgtaacctg	ccagcgcgcc	aaagacgcag	agcttccagt	tctcgatgtc	1500
cttctctggc	atatctcgcg	actcgatctc	gtttttcacg	agagcttcaa	aagtcagaaa	1560
atacgtctcg	ctaccacaac	tttctcttgc	cagcgtaggt	cccagacccc	ggtagattaa	1620
cttgatgcct	cccgatatgt	acagcttctt	gatcc			1655

10042059-101501